ATTACHMENT A

AIR POLLUTION CONTROL CONDITIONAL PERMIT TO OPERATE AND COMPLIANCE SCHEDULE

Pursuant to Section 23-25-01 through Section 23-25-10 of Chapter 23-25 of the North Dakota Century Code and Regulation 23-25, the Air Pollution Control Regulations of the State of North Dakota, and in reliance on statements and representations heretofore made by the owner designated below, a conditional permit to operate is hereby issued authorizing such owner to operate the source unit(s) at the location designated below. This conditional permit to operate is subject to all applicable rules, regulations and orders now or hereafter in effect of the North Dakota State Department of Health and to any conditions specified below:

	Owner		3. Permit Number		
1.	Name	Basin Electric Power Cooperative, Inc.		730004	
2.	Address	Suite 624 316 North Fifth Street	4.	Installation	
		Bismarck, North Dakota 58501		Leland Olds Station	
			5.	Installation Location	
				Stanton, North Dakota	
				Mercer County	

6. Source Unit(s):

Unit No. 1, Babcock and Wilcox boiler with a maximum rated heat input capacity of 2,310,000,000 BTU/hour.

..... DONOTA STATE DEPARTMENT OF HEALTH

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AIR POLLUTION CONTROL CONDITIONAL PERMIT TO OPERATE AND

Permit Number 730004

(Continued)

COMPLIANCE SCHEDULE

supplemental sheet CONDITIONS

7. The source unit(s) identified in Item 6 shall be brought into full compliance with Regulation 23-25 in accordance with the following compliance schedule:

Incremental Date		Progress Description		
(i)	By March 30, 1973	Submission of final plans and specifications to the Department for review and approval.		
(ii)	By February 15, 1973	Contracts and/or orders will be awarded and/or issued for emission control systems, modifications and purchase of component parts to accomplish emission control or process modification.		
(iii)	By June 1, 1973	Initiation of on-site construction or installation of emission control equipment or process change.		
(iv)	By September 28, 1974	On-site construction or installation of emission control equipment and/or process modification is to be completed.		
(v) 1	By December 1, 1974	Final and complete compliance with all applicable air pollution rules and regulations is to be achieved.		

- 8. Periodic reports on progress in achieving compliance shall be filed by the owner with the Department not later than thirty (30) days following each incremental compliance schedule date.
- 9. Compliance testing reports shall be filed by the owner with the Department not later than thirty (30) days following the date by which final and complete compliance is achieved.

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AIR POLLUTION CONTROL CONDITIONAL PERMIT TO OPERATE AND

COMPLIANCE SCHEDULE

Permit Number 730004

(Continued)

supplemental sheet

CONDITIONS

- 10. Emission inventory reports including, but not limited to, fuel usage and air contaminant emissions shall be submitted by the owner to the Department, on forms supplied by the Department, not later than forty-five (45) days following the end of the calendar year.
- 11. Except as specifically provided otherwise by this conditional permit to operate, the owner named in Item 1 shall operate the source unit(s) described in Item 6 of this permit in accordance with statements, representations, procedures and supporting data contained in application and compliance schedule dated March 30, 1973.
- 12. This conditional permit to operate shall be effective from the date of its issuance until suspended, revoked or surrendered and shall be subject to all applicable provisions of the Air Pollution Control Regulations of the State of North Dakota, Regulation 23-25. This permit may not be transferred without the prior approval of the Department.
- 13. This conditional permit to operate shall supersede and replace the variance issued by this Department on September 10, 1971, for Unit No. 1.

FOR THE NORTH DAKOTA STATE DEPARTMENT OF HEALTH

Date: June 1, 1973

W. Van Heuvelen, Chief

Environmental Health and Engineering Services

CF 6-18-73

"Buy North Dakota Products"

ATTACHMENT B

AIR POLLUTION CONTROL PERMIT TO OPERATE

Pursuant to Chapter 23-25 of the North Dakota Century Code, and the Air Pollution Control Regulations of the State of North Dakota, and in reliance on statements and representations heretofore made by the owner designated below, a permit to operate is hereby issued authorizing such owner to operate the source unit(s) at the location designated below. This permit to operate is subject to all applicable rules, regulations and orders now or hereafter in effect of the North Dakota State Department of Health and to any conditions specified below:

1.	Owner	2. Permit Number		
:	A. Name	730004		
	Basin Electric Power Cooperative	3. Installation		
	B. Address	Leland Olds Station		
	1717 East Interstate Ave.	4. Installation Location		
	Bismarck, North Dakota 58501	Stanton, North Dakota Mercer County		
5	Fypiration Date:			

5. Expiration Date:

April 11, 1980

b. Source Unit(s):

- A. Unit #1, lignite-fired, steam electric power generation plant consisting of the following components:
 - 1. One (1) Babcock and Wilcox pulverized coal fired boiler with a rated heat input capacity of 2310×10^6 BTU/hr equipped with the following air pollution control equipment:
 - a. One (1) Research Cottrell electrostatic precipitator designed for a gas capacity of 1,000,000 ACFM with an efficiency of 99.5%.
- B. Unit #2, lignite-fired, steam electric power generation plant consisting of the following components:
 - 1. One (1) Babcock and Wilcox cyclone boiler with a rated heat input capacity of 4556×10^6 BTU/hr equipped with the following air pollution control equipment:
 - a. Two (2) Western Precipitator Division, Joy Manufacturing Company electrostatic precipitators designed for a combined gas capacity of 2,100,000 ACFM and an efficiency of 99.05%.

AIR POLLUTION CONTROL PERMIT TO OPERATE

Permit number 730004

supplemental sheet

- C. A 1500 tons/hour lignite coal handling system for Source Units A. and B. equipped with the following air pollution control equipment:
 - 1. One (1) #16 W-D American Air Filter rotoclone for the transfer tower.
 - 2. One (1) #16 W-D and one (1) #20 W-D American Air Filter rotoclones for the reclaim tunnels.
 - 3. One (1) #16 W-D American Air Filter rotoclone for the crusher house.
 - 4. One (1) #24 W-D and one (1) #27 W-D American Air Filter rotoclones for the bunker house transfer conveyors on Source Unit B.
 - 5. Two (2) #24 W-A American Air Filter rotoclones for east and west bunker ventilation on Source Unit B.
 - 6. One (1) #16 W-D American Air Filter rotoclone for the bunker room on Source Unit A.

CONDITIONS

- 7. A. This Permit to Operate shall supersede Air Pollution Control Conditional Permit to Operate and Compliance Schedule No. 730004 issued June 1, 1973.
 - B. The owner named in Item 1 shall operate the source unit(s) described in Item 6 of this permit in accordance with statements, representations, procedures and supporting data contained in applications dated March 3, 1973 and November 5, 1975.

AIR POLLUTION CONTROL PERMIT TO OPERATE

Fermit number 730004

supplemental sheet

- C. Any alterations, rebuilding, repairing, expansion, or change of location of the installations which result in emissions of additional or greater amounts of air contaminants must be reviewed and approved by the Department prior to the start of such alteration, rebuilding, repairing, expansion or change of location.
- D. All reasonable precautions shall be taken by the owner to prevent and/or minimize fugitive dust emissions from the operation of the source unit(s) and/or storage pile(s).
- E. Emission inventory reports including, but not limited to, production, fuel usage, and air contaminant emissions shall be submitted by the owner to the Department, on forms supplied by the Department, not later than forty-five (45) days following the end of the calendar year.
- F. This Permit to Operate shall in no way permit or authorize the maintenance of a nuisance or a danger to public health or safety.
- G. This Permit to Operate shall be effective from the date of its issuance until suspended, revoked or surrendered and shall be subject to all applicable provisions of the Air Pollution Control Regulations of the State of North Dakota. This permit may not be transferred.
- H. This Permit to Operate shall in no way permit or authorize the discharge of air contaminants which cause an odor objectionable to individuals of ordinary sensibility.
- I. This Permit to Operate shall become void upon the third anniversary date (4/11/80) of its issuance. An application for renewal of this permit shall be submitted sixty (60) days prior to such anniversary date. The Department shall approve or disapprove the Permit to Operate within sixty (60) days of the receipt of the renewal application.

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AIR POLLUTION CONTROL
PERMIT TO OPERATE

Permit number 730004

supplemental sheet

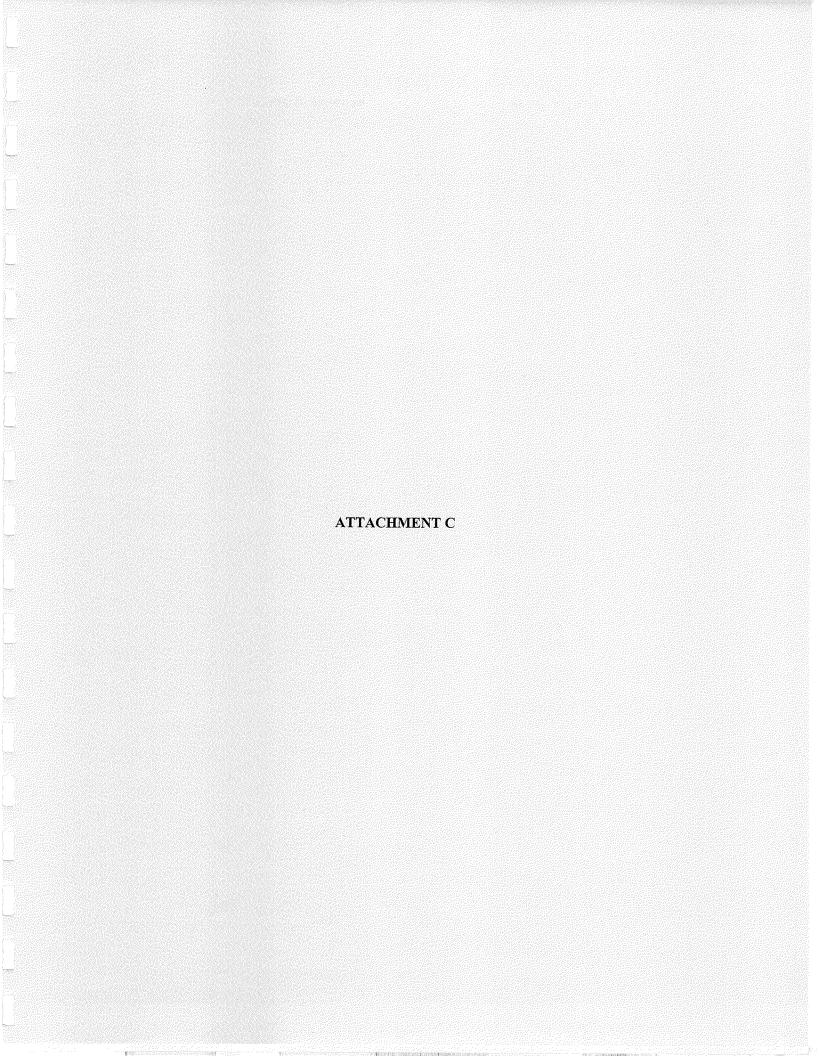
J. The owner named in Item 1 shall be required to obtain approval from the Department to operate the Source Unit(s) described in Item 6 of this permit without the air pollution control equipment functioning or any situation which might cause a violation of the opacity standards not covered under Section 1.120 of R23-25-01 of the Air Pollution Control Regulations. All requests for approval shall be submitted twenty-four (24) hours in advance and include the reason for operating in that manner, the expected emissions and the length of time the condition will exist.

Date: 4/11/77

FOR THE NORTH DAKOTA STATE DEPARTMENT OF HEALTH

Chief, Environmental Control

CL: 4-12-77





NORTH DAKOTA STATE DEPARTMENT OF HEALTH AND CONSOLIDATED LABORATORIES

State Capitol Bismarck, North Dakota 58505 Page 1 of 4

ENVIRONMENTAL HEALTH SECTION

1200 Missouri Avenue P.O. Box 5520 Bismarck, North Dakota 58502-5520

AIR POLLUTION CONTROL PERMIT TO OPERATE

Pursuant to Chapter 23-25 of the North Dakota Century Code, and the Air Pollution Control Rules of the State of North Dakota, and in reliance on statements and representations heretofore made by the owner designated below, a Permit to Operate is hereby issued authorizing such owner to operate the source unit(s) at the location designated below. to Operate is subject to all applicable rules and orders now or hereafter in effect of the North Dakota State Department of Health and Consolidated Laboratories and to any conditions specified below:

01	wner:	2.	Permit Number 730004
A	. Name Basin Electric Power	3.	Installation
	Cooperative		Leland Olds Station
В	. Address 1717 E Interstate Ave.	4.	Installation Location
	Bismarck, ND 58501-0564		Stanton, North Dakota Mercer County

5

May 8, 1993

Source Unit(s):

- Unit #1, lignite-fired steam electric power generation plant consisting of the following:
 - One Babcock and Wilcox pulverized coal-fired boiler with a 1) rated heat input capacity of 2310 x 106 BTU/hr equipped with the following air pollution control and monitoring equipment:
 - a. One Research Cottrell electrostatic precipitator designed for a gas capacity of 1,000,000 ACFM with a design efficiency of 99.5%.
 - b. One Lear Siegler RM4200 continuous emission monitor to measure opacity.

EXHIBIT C

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B. Unit #2, lignite-fired steam electric power generation plant consisting of the following:

., :

. . .

- 1) One Babcock and Wilcox cyclone boiler with a rated heat input capacity of 4556 x 10 BTU/hr equipped with the following air pollution control and monitoring equipment:
 - a. Two Western Precipitator Division, Joy Manufacturing Company electrostatic precipitators designed for a combined gas capacity of 2,100,000 ACFM and a design efficiency of 99.05%.
 - b. One Lear Siegler RM4200 continuous emission monitor to measure opacity.
- C. A 1500 ton/hour lignite coal handling system for Source Units A. and B. equipped with the following air pollution control equipment:
 - One #16 W-D American Air Filter rotoclone for the transfer tower.
 - One #16 W-D and one #20 W-D American Air Filter rotoclone for the two reclaim tunnels.
 - Two #16 W-D American Air Filter rotoclones for the crusher house.
 - 4) One #24 W-D and one #27 W-D American Air Filter rotoclone for the two bunker house transfer conveyors on Source Unit B.
 - 5) Two #24 W-A American Air Filter rotoclones for east and west bunker ventilation on Source Unit B.
 - 6) Two #16 W-D American Air Filter rotoclones for the two bunker loading conveyors on Source Unit A.

CONDITIONS

7. A. The maximum allowable emission rates for the following source units shall be:

Source Unit	Pollutant	Allowable Emission Rate
Unit #1	Particulate	0.10 lb/10 ⁶ BTU
2310 x 10 ⁶ BTU/hr	SO ₂	3.0 lb/10 ⁶ BTU
Boiler	Opacity	20%

Source Unit	Pollutant	Allowable Emission Rate
Unit 2	Particulate	0.10 1b/10 ⁶ BTU
4556 x 10 ⁶ BTU/hr	SO ₂	3.0 1b/10 ⁶ BTU
Boiler	Opacity	20%

B. Continuous emission monitoring and recording systems (CEM) to measure opacity from the main boiler stacks shall be calibrated, maintained, and operated by the owner or operator.

The monitoring and recording shall be in accordance with the requirements for Notification and Recordkeeping, Subsection 6 of Section 33-15-12-01 and Monitoring Requirements, Subsection 11 of Section 33-15-12-01 of the North Dakota Air Pollution Control Rules.

Quarterly excess emission reports shall be submitted by the 30th day following the end of each calendar quarter. The reports shall include those items identified in Subsection 6 of Section 33-15-12-01 (Notification and Recordkeeping) of the North Dakota Air Pollution Control Rules. Excess emissions are defined as any six-minute period during which the average opacity of emissions from the boiler exceeds 20% opacity except for one six-minute period per hour when the opacity may not exceed 40%.

- C. At its discretion, the Department may require a performance audit of the continuous emission monitoring (CEM) system or a performance test of the source to ensure that the monitor is reporting accurately or to ensure compliance with emission limitations.
- D. All reasonable precautions shall be taken by the owner/operator to prevent and/or minimize fugitive emissions from the operation of the source unit(s) identified under Item 6.
- E. Emission inventory reports including, but not limited to process information regarding the amount and types of fuel used and production rate and air contaminant emissions shall be submitted to the Department, upon request, on forms supplied by the Department.
- F. The owner/operator shall operate the source unit(s) described in Item 6 of this permit in accordance with statements, representations, procedures and supporting data contained in the initial application, and any supplemental information or renewal application(s) submitted thereafter.
- G. Any alteration, rebuilding, repairing, expansion, change in the method of operation, or change of location of the source which results in the emission of an additional type or greater amount

of air contaminants or which results in an increase in the ambient concentration of any air contaminant, must be reviewed and approved by the Department prior to the start of such alteration, rebuilding, repairing, expansion, change in the method of operation, or change of location.

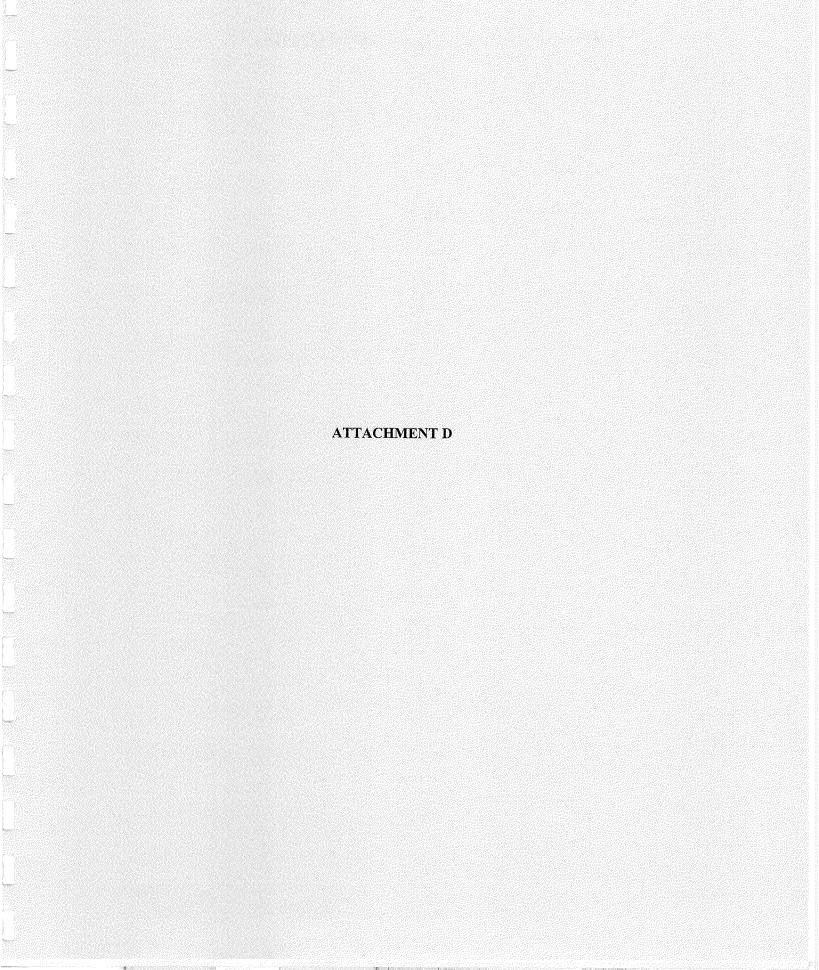
- H. This Permit to Operate shall in no way permit or authorize the maintenance of a nuisance or a danger to public health or safety.
- I. This Permit to Operate shall be effective from the date of its issuance until the date specified in Item 5 unless sooner suspended, revoked or surrendered. Application for renewal of this permit shall be submitted sixty days prior to such expiration date. The Department shall approve or disapprove the renewal of the Permit to Operate within sixty days of receipt of the renewal application.
- J. This permit may not be transferred and is to be returned to the Department upon the destruction or change of ownership of the source unit(s), or upon expiration, suspension or revocation of this permit.
- K. This Permit to Operate is issued in reliance upon the accuracy and completeness of the information set forth in the application. The conditions of this permit herein become, upon the effective date of this permit, enforceable by the Department pursuant to any remedies it now has, or may in the future have, under the North Dakota Air Pollution Control Law, NDCC Chapter 23-25. Each and every condition of this permit is a material part thereof, and is not severable.

FOR THE NORTH DAKOTA STATE DEPARTMENT OF HEALTH AND CONSOLIDATED LABORATORIES

Date 3/11/90

Dana K. Mount, Director Division of Environmental

Engineering



TitleV - 27-27-98

Page <u>5</u> of <u>29</u> Permit No. <u>T5-F73004</u>

4. Emission Unit(s) Limits:

Emission Unit	(EUI)	Emission Point Number	Pollutant/ Parameter	Emission Limit	NDAC Applicable Requirement
One Babcock and Wilcox pulverized coal-fired boiler with a rated heat	. Unit 1	EP1	Particulate	0.10 lb/l0' BTU and 231 lb/hr (1-hr average)	33-15-05-02.2.f
input capacity of 2,622 x 10 BTU/hr.			SO ₂	3 1b/10' BTU (1290 ng/J) and 6.930 1b/hr (3-hr rolling average)	33-15-06-01.2 and Previous Permit to Operate
			Opacity	20%*	33-15-03-01.2
One Babcock and Wilcox cyclone boiler with a rated maximum heat input capacity	Unit 2	EP2	Particulate	0.10 1b/10' BTU and 456 lb/hr (1-hr average)	33-15-05-02.2.f
of 5,130 x 10 ⁴ BTU/hr.			SO ₂	3 lb/10' BTU (1290 ng/J) and 13,668 lb/hr (3-hr rolling average)	33-15-06-01.2 and Previous Permit to Operate
			Opacity	20%*	33-15-03-02
One auxiliary boiler	Auxiliary Boiler	EP3	Particulate	0.8 lb/10' BTU	33-15-05-02.2a
with a rated maximum heat input capacity of 51.6 x 10° BTU/hr fired with #2 fuel	•		so;	3 1b/10' BTU (1290 ng/j)***	33-15-06-01.2 .
oil.			Opacity	40%	33-15-03-01
One No. 2 fuel oil- fired diesel engine with a rated capacity of 200 horsepower.	Emergency Fire Pump Engine	EP5	Opacity	40%**	33-15-03-01
One coal handling system with emissions from the following areas:					
Transfer Tower G	MI	м1	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-01.2
Reclaim tunnel surge chute building.	M2	м2	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-01.2
Crusher house (east).	мз	ЕМ	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-01.2
Crusher house (west).	M4	M4	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-01.2
Transfer tower.	M 5	M5	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-01.2
Unit 1 bunker house transfer conveyors.	м6	м6	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-01.2
Unit 2 east bunker loading conveyor.	M7	M7	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-02
Unit 2 west bunker loading conveyor.	м8	мв	Particulate Opacity	1.0 1b/hr**** 20%*	Title V Application 33-15-03-02
Unit 2 bunker house transfer conveyor 2B2 (west).	ем	м9	Particulate Opacity	1.0 lb/hr**** 20%*	Title V Application 33-15-03-02